

MINISTRY OF TELECOMMUNICATIONS

ITU Measuring Information Society 2013

Lebanon Success Story

تقرير قياس مجتمع المعلومات

قصة نجاح لبنان

ITU الاتحاد الدولي للاتصالات

INTERNATIONAL TELECOMMUNICATION UNION

The International Telecommunication Union (ITU) is a specialized agency of the United Nations that is responsible for issues that concern information and communication technologies (ICT).

الاتحاد الدولي للاتصالات هو مؤسسة دولية متخصصة تابعة للأمم المتحدة،
مسؤولية الاتحاد هي كافة الامور المتعلقة بتكنولوجيا المعلومات والاتصالات



Committed to connecting the world

MIS Report 2013 قياس مجتمع المعلومات

- The MIS report, has been published annually since 2009, features two benchmarking tools to measure the information society: the ICT Development Index (IDI) and the ICT Price Basket (IPB)
- The 5th edition of the ITU Measuring the Information Society (MIS) report was launched on **7 October 2013**

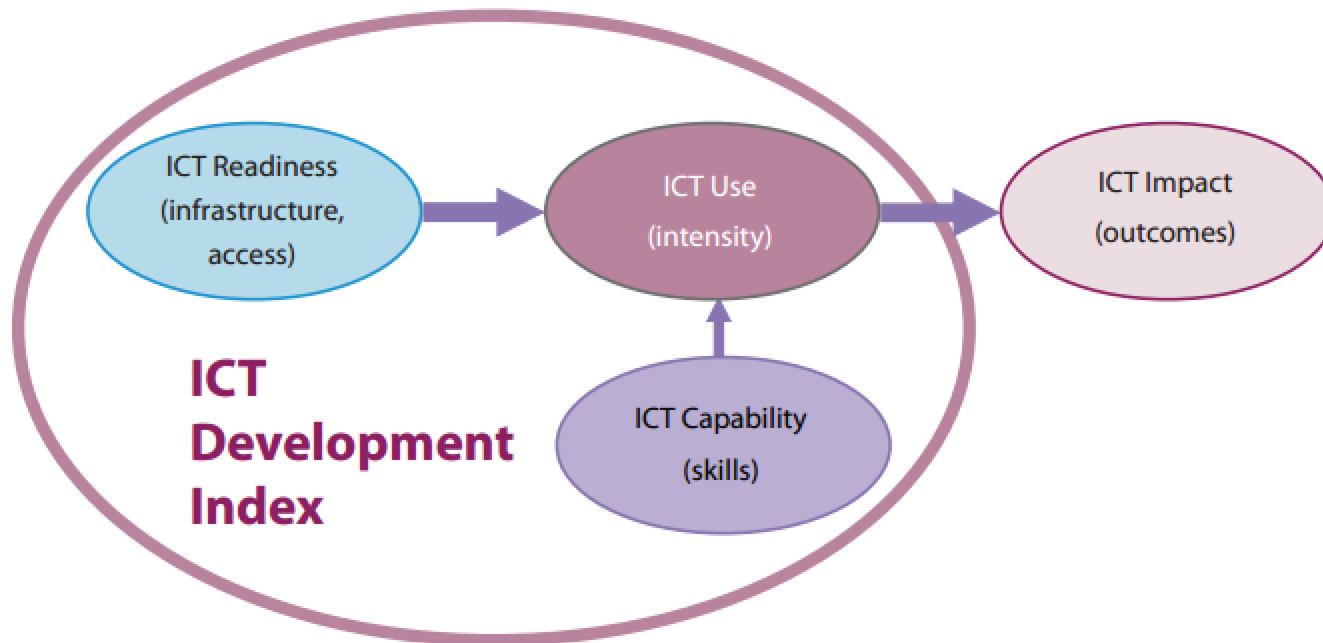
- **ينشر الاتحاد تقرير قياس مجتمع المعلومات منذ 2009**
- **يضهر التقرير دليل تنمية تكنولوجيا المعلومات والاتصالات**
- **الاصدار الخامس والأخير في 7/10/2013**



Information Society مجتمع المعلومات

- access, use, skills - مؤشر النفاذ ، مؤشر الاستعمال، مؤشر المهارات

Figure 2.1: Three stages in the evolution towards an information society



Source: ITU.

ICT Development Index IDI
دليل تنمية تكنولوجيا المعلومات والاتصالات

- **The ICT Development Index (IDI) is a composite index**
- **هو دليل (مؤشر) مركب من عدة دلائل (مؤشرات) فرعية**

- **combines 11 indicators into one benchmark**
- **يجمع 11 دليل (مؤشر) فرعي**

- **monitor and compare developments in information and communication technology (ICT) across countries (157)**
- **يراقب ويقارن التطور في تكنولوجيا المعلومات والاتصالات بين 157 دولة**

Index & sub-index دليل رئيسي وثانوي

- **دليل النفاذ**
- نسبة الاشتراكات على الشبكة الثابتة
- نسبة الاشتراكات على الشبكة الخلوية
- نسبة السعة الدولية لكل مشترك
- نسبة الكمبيوتر في المنازل
- نسبة الانترنت في المنازل

- **دليل الاستعمال**
- نسبة الافراد التي تستعمل الانترنت
- نسبة المستعملين للشبكة الثابتة
- نسبة المستعملين للشبكة الخلوية

- **دليل المهارات**
- معدل التعليم للراشدين
- نسبة التعليم الثانوي
- نسبة التعليم الجامعي

Figure 2.2: ICT Development Index: indicators, reference values and weights

ICT access	Reference value	(%)
1. Fixed-telephone subscriptions per 100 inhabitants	60	20
2. Mobile-cellular telephone subscriptions per 100 inhabitants	190	20
3. International Internet bandwidth (bit/s) per Internet user	621'834*	20
4. Percentage of households with a computer	100	20
5. Percentage of households with Internet access	100	20

40

ICT use	Reference value	(%)
6. Percentage of individuals using the Internet	100	33
7. Fixed (wired)-broadband subscriptions per 100 inhabitants	60	33
8. Wireless-broadband subscriptions per 100 inhabitants	100	33

40

ICT skills	Reference value	(%)
9. Adult literacy rate	100	33
10. Secondary gross enrolment ratio	100	33
11. Tertiary gross enrolment ratio	100	33

20

ICT Development Index

Note: * This corresponds to a log value of 5.79, which was used in the normalization step.
Source: ITU.

Most dynamic Lebanon لبنان الاكثر ديناميه

لبنان الاول في العالم من ناحية زيادة قيمة الدليل value والثاني في زيادة الرتبة rank

Table 2.3: Most dynamic countries – changes between IDI 2011 and 2012

Change in IDI ranking		
IDI rank 2012	Country	IDI rank change
33	United Arab Emirates	12
52	Lebanon	9
29	Barbados	7
64	Seychelles	6
41	Belarus	5
60	Costa Rica	5
85	Mongolia	5
132	Zambia	5
11/135	Australia/Bangladesh	4*
54/115	Oman/Zimbabwe	4*

Change in IDI value (absolute)		
IDI rank 2012	Country	IDI value change
52	Lebanon	0.75
33	United Arab Emirates	0.73
29	Barbados	0.65
54	Oman	0.56
60	Costa Rica	0.56
41	Belarus	0.55
22	Estonia	0.54
39	Bahrain	0.51
26	Israel	0.41
62	Brazil	0.41

Note: * Australia, Bangladesh, Oman and Zimbabwe all went up four places in the IDI rankings between 2011 and 2012.
Source: ITU.

Most Dynamic Lebanon لبنان الاكثر دينامية

- **لبنان:** بلغت قيمة مؤشر لبنان 5.37 واحتل المرتبة 52،
- هو البلد الذي تمكن من تحقيق أعلى زيادة في قيمة مؤشره IDI
- سجل لبنان زيادة في معدل الحزمة العريضة الخلوية من 11% 2011 الى 26% 2012
- تخفيض كلفة الحزمة العريضة الخلوية، وضع لبنان تحت معدل الكلفة في الدول العربية

Lebanon has an IDI value of 5.37, and ranks 52nd in the IDI 2012. It is the country with the highest increase in IDI value of 0.75 points. In the IDI 2011, the country stood out for increases in the access sub-index (ITU, 2012a). The 2012 data show that while the access sub-index value continues to improve, Lebanon was able to translate progress in ICT access and infrastructure into more intense use of services. The country's broadband market has seen a number of changes between 2011 and 2012, in particular with the introduction of wireless broadband. 3G was commercially launched in November 2011 by Touch and Alfa, Lebanon's two state-owned mobile operators, and wireless-broadband penetration went up from 11 per cent in 2011 to 26 per cent in 2012. Fixed (wired)-broadband penetration more than doubled, from 5 per cent in 2011 to 12 per cent in 2012. A new entry-level broadband plan was introduced by governmental decree in September 2011, lowering the cost of entry-level broadband by 70 per cent. The price of this new package lies below the Arab States average, according to a study by the Lebanese

Access Sub-index مؤشر النفاذ

مؤشر النفاذ، يضع لبنان في المرتبة **الاولى عالمياً** من ناحية الزيادة في قيمة المؤشر، والثالث من ناحية الزيادة في المرتبة

Table 2.6: IDI access sub-index, 2011 and 2012

Economy	Rank 2012	Access 2012	Rank 2011	Access 2011
Latvia	51	6.25	52	6.02
St. Vincent and the Gr.	52	6.12	51	6.02
Seychelles	53	6.10	57	5.49
Malaysia	54	6.09	54	5.76
Lebanon	55	6.04	64	5.34
Argentina	56	5.88	56	5.59
Serbia				
Romania				
Moldova				
Oman				

Table 2.7: Top ten economies with the greatest 2011-2012 change in the IDI access sub-index, by absolute value change (left) and rank change (right)

IDI rank 2012	Access rank 2012	Country	Access value change 2011-2012
52	55	Lebanon	0.70
64	53	Seychelles	0.62
33	25	United Arab Emirates	0.58
60	65	Costa Rica	0.57
48	41	Kazakhstan	0.45
70	66	Panama	0.45
39	28	Bahrain	0.44
120	109	Cambodia	0.43
76	74	Jordan	0.42
71	73	Georgia	0.41

IDI rank 2012	Access rank 2012	Country	Access rank change 2011-2012
33	25	United Arab Emirates	10
116	113	Kenya	10
52	55	Lebanon	9
85	88	Mongolia	7
39	28	Bahrain	6
48	41	Kazakhstan	6
41	47	Belarus	6
115	120	Zimbabwe	6
112	97	Gabon	5
119	115	Sudan	5

Source: ITU.

Use Sub-index مؤشر الاستعمال

Table 2.8: IDI use sub-index, 2011 and 2012

Economy	Rank 2012	Use 2012	Rank 2011	Use 2011
Chile	53	3.67	55	2.98
Saudi Arabia	54	3.67	48	3.28
Lebanon	55	3.54	63	2.37
Serbia	56	3.52	50	3.20
Brazil	57	3.41	59	2.69
Romania	[illegible]	[illegible]	[illegible]	[illegible]
Bosnia and Herzegovina				

- مؤشر الاستعمال، يضع لبنان في المرتبة **الخامسة عالمياً** من ناحية الزيادة في المرتبة

Table 2.9: Top ten economies with the greatest 2011-2012 change in IDI use sub-index, by absolute value change (left) and rank change (right)

IDI rank 2012	Use rank 2012	Country	Use value change 2011-2012
68	92	Ukraine	2.89
90	110	Iran (I.R.)	2.76
63	78	St. Vincent and the Gr.	2.57
58	70	Brunei Darussalam	2.54
65	80	Moldova	2.52
85	95	Mongolia	2.42
41	45	Belarus	2.40
87	100	Suriname	2.40
53	60	Argentina	2.38
106	120	Algeria	2.36

IDI rank 2012	Use rank 2012	Country	Use rank change 2011-2012
29	32	Barbados	12
33	30	United Arab Emirates	10
72	67	Mauritius	9
80	65	Albania	9
52	55	Lebanon	8
120	131	Cambodia	8
54	46	Oman	8
96	85	Cape Verde	8
41	45	Belarus	7
117	111	Swaziland	7

Source: ITU.

Use Sub-index مؤشر الاستعمال

Lebanon was singled out in the 2012 MIS report for its strong growth in the IDI access sub-index, but lagged behind in terms of ICT use. Since then, this has changed, and the country has also succeeded in making impressive progress on the use sub-index. The relatively late launch (in October 2011) of 3G mobile-broadband services by the operators MTC Touch and Alfa has quickly driven broadband uptake and Internet user growth.

- إن أنطلاق خدمة الجيل الثالث في لبنان مكنه من النمو الملحوظ في مجال النفاذ والاستعمال لخدمات الانترنت والحزمة العريضة

Skills sub-index مؤشر المهارات

- جائت مرتبة لبنان في **الموقع الأول** بين البلدان العربية من ناحية مؤشر المهارات

Economy	Rank 2012	Skills 2012	Rank 2011	Skills 2011
Korea (Rep.)	1	9.86	1	9.86
Finland	2	9.80	2	9.80
United States	3	9.65	3	9.65
Greece	4	9.55	4	9.55
Belarus	5	9.48	5	9.48
Slovenia	6	9.44	6	9.44
New Zealand	7	9.38	7	9.38
Spain	8	9.34	8	9.34
Australia	9	9.29	9	9.29
Iceland	10	9.24	10	9.24
Ukraine	11	9.17	11	9.17
Norway	12	9.10	12	9.10
Denmark	13	9.08	13	9.08
Cuba	14	9.00	14	9.00
Sweden	15	9.00	15	9.00
Belgium	16	8.98	16	8.98
Poland	17	8.96	17	8.96
Lithuania	18	8.92	18	8.92
Austria	19	8.92	19	8.92
Ireland	20	8.89	20	8.89
Canada	21	8.85	21	8.85
Netherlands	22	8.80	22	8.80
Russian Federation	23	8.80	23	8.80
Estonia	24	8.79	24	8.79
Italy	25	8.79	25	8.79
Argentina	26	8.75	26	8.75
Israel	27	8.71	27	8.71
Portugal	28	8.69	28	8.69
Barbados	29	8.69	29	8.69
Chile	30	8.64	30	8.64
Macao, China	31	8.63	31	8.63
Hungary	32	8.62	32	8.62
United Kingdom	33	8.62	33	8.62
Japan	34	8.62	34	8.62
Venezuela	35	8.56	35	8.56
France	36	8.55	36	8.55
Czech Republic	37	8.48	37	8.48
Romania	38	8.45	38	8.45
Latvia	39	8.42	39	8.42
Uruguay	40	8.38	40	8.38
Switzerland	41	8.37	41	8.37
Croatia	42	8.28	42	8.28
Fiji	43	8.24	43	8.24
Mongolia	44	8.23	44	8.23
Germany	45	8.17	45	8.17
Slovakia	46	8.13	46	8.13
Bulgaria	47	8.13	47	8.13
Kazakhstan	48	8.09	49	8.00
Armenia	49	8.01	48	8.01
Serbia	50	7.99	50	7.99
Hong Kong, China	51	7.98	51	7.98
Costa Rica	52	7.97	52	7.97
Cyprus	53	7.94	53	7.94
Colombia	54	7.79	54	7.79
Turkey	55	7.71	55	7.71
Lebanon	56	7.68	56	7.68
Albania	57	7.65	57	7.65
Saudi Arabia	58	7.60	58	7.60

Table 2.10: IDI skills sub-index, 2011 and 2012

Economy	Rank 2012	Skills 2012	Rank 2011	Skills 2011
Lebanon	56	7.68	56	7.68
Saudi Arabia	58	7.60	58	7.60
Bahrain	62	7.47	62	7.47
Jordan	64	7.35	64	7.35
Oman	74	7.18	74	7.18
United Arab Emirates	81	7.08	81	7.08
Tunisia	85	6.95	85	6.95
Qatar	88	6.92	88	6.92
Algeria	91	6.82	91	6.82
Egypt	108	5.80	109	5.74
Syria	109	5.77	108	5.77

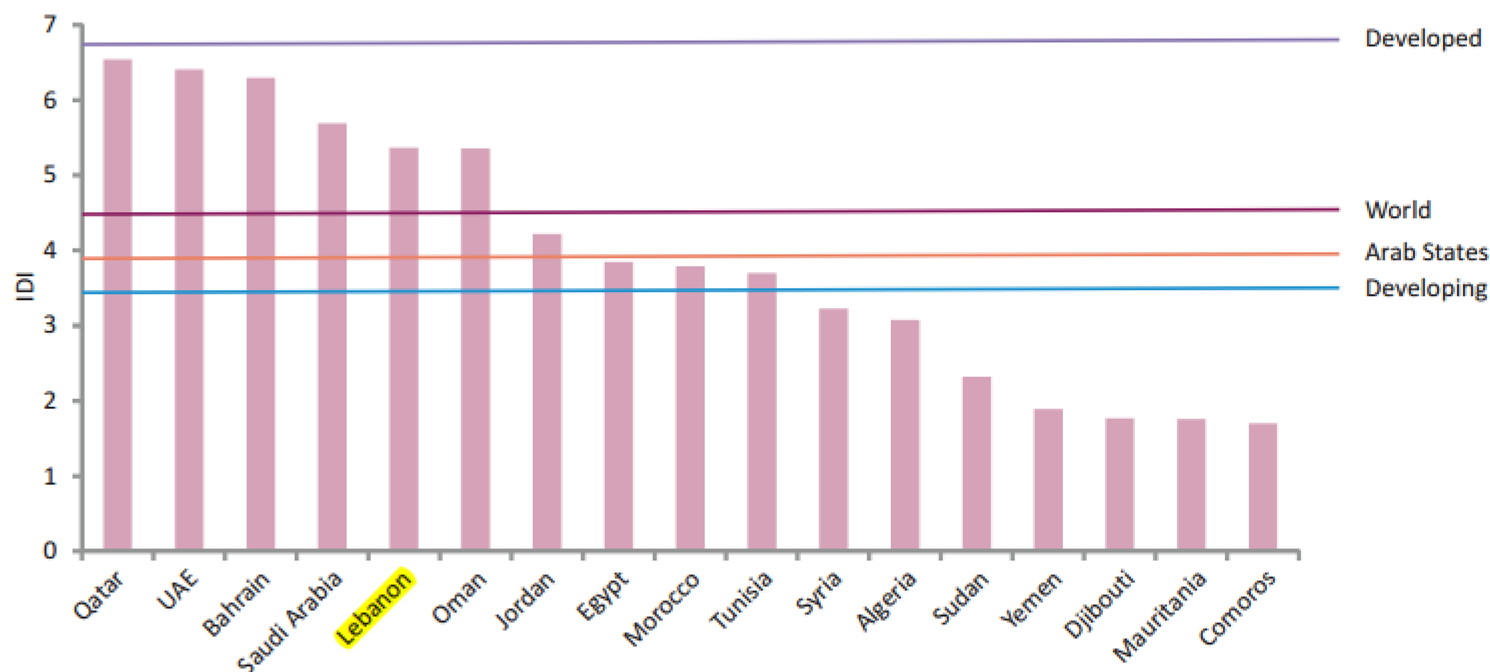
Top 5 economies/region
أعلى خمس اقتصادات في المنطقة

Table 2.12: The top five economies in each region and their ranking in the global IDI, 2012

Regional IDI rank	Europe	Global IDI rank	Asia & Pacific	Global IDI rank	The Americas	Global IDI rank	Arab States	Global IDI rank	CIS	Global IDI rank	Africa	Global IDI rank
1	Sweden	2	Korea (Rep.)	1	United States	17	Qatar	31	Russian Federation	40	Seychelles	64
2	Iceland	3	Hong Kong, China	10	Canada	20	United Arab Emirates	33	Belarus	41	Mauritius	72
3	Denmark	4	Australia	11	Barbados	29	Bahrain	39	Kazakhstan	48	South Africa	84
4	Finland	5	Japan	12	Uruguay	47	Saudi Arabia	50	Azerbaijan	61	Cape Verde	96
5	Norway	6	Macao, China	14	Antigua & Barbuda	49	Lebanon	52	Moldova	65	Botswana	108

Source: ITU.

Lebanon IDI above World avg.
لبنان يفوق المعدل العالمي لمؤشر التطور التكنولوجي



Lebanon 5th among Arab states

لبنان هو الخامس بين الدول العربية بعد ان تقدم سنة 2012 على سلطنة عمان، يلي قطر، الامارات، البحرين والسعودية

Table 2.14: IDI – Arab States

Economy	Regional rank 2012	Global rank 2012	IDI 2012	Global rank 2011	IDI 2011	Global rank change 2011-2012
Qatar	1	31	6.54	30	6.41	-1
United Arab Emirates	2	33	6.41	45	5.68	12
Bahrain	3	39	6.30	42	5.79	3
Saudi Arabia	4	50	5.69	48	5.46	-2
Lebanon	5	52	5.37	61	4.62	9
Oman	6	54	5.36	58	4.80	4
Jordan	7	76	4.22	77	3.90	1
Egypt	8	86	3.85	87	3.65	1
Morocco	9	89	3.79	89	3.59	0
Tunisia	10	91	3.70	92	3.58	1
Syria	11	102	3.22	99	3.13	-3
Algeria	12	106	3.07	105	2.98	-1
Sudan	13	119	2.33	118	2.19	-1
Yemen	14	127	1.89	129	1.76	2
Djibouti	15	131	1.77	131	1.71	0
Mauritania	16	133	1.76	133	1.70	0
Comoros	17	138	1.70	134	1.68	-4
Average*			**3.94**		**3.68**	

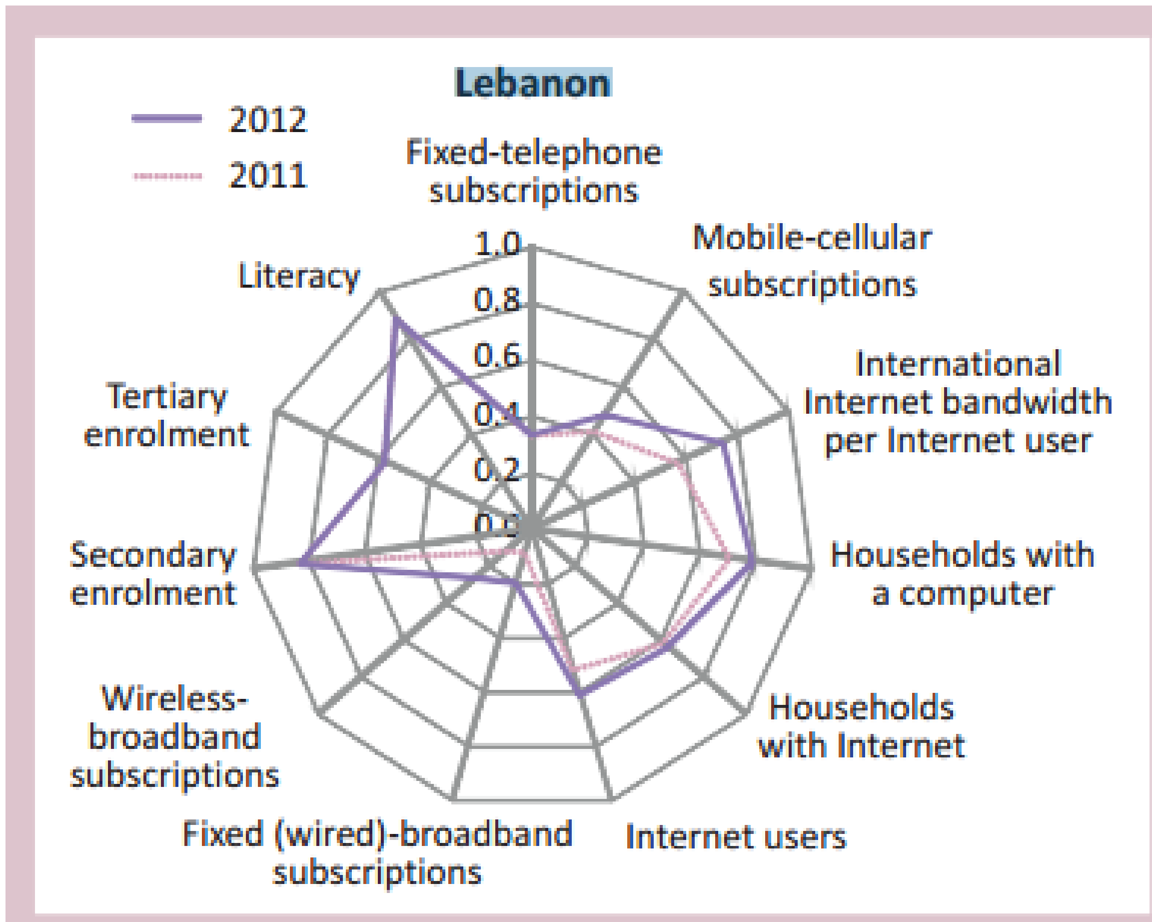
Note: *Simple average.
Source: ITU.

Considerable increase زيادة كبيرة

- **Considerable increases in wireless-broadband penetration rates were observed in Lebanon and the United Arab Emirates, where the rate more than doubled, to 26 per cent and 51 per cent, respectively.**
  - **زيادة كبيرة في نمو واستعمال الحزمة العريضة اللاسلكية والخلوية في كل من لبنان ودولة الامارات العربية المتحدة بلغت الضعف**

- **In Jordan, Lebanon, …, the proportion of individuals using the Internet increased by more than 15 per cent**
  - **زيادة كبيرة في معدل الافراد الذين يستعملون الانترنت بأكثر من 15%**

Considerable increase



تطور مبهر في مجالات:

- السعة الدولية من شبكة من الالياف الضوئية العالمية
- انتشار الكمبيوتر
- استعمال الخلوي
- استعمال الجيل الثالث

An honorable result إنجاز مشرف للبنان

Table 2.3: Most dynamic countries – changes between IDI 2011 and 2012

Change in IDI ranking		
IDI rank 2012	Country	IDI rank change
33	United Arab Emirates	12
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Change in IDI value (absolute)		
IDI rank 2012	Country	IDI value change
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Note: * Australia, Bangladesh, Oman and Zimbabwe all went up four places in the IDI rankings between 2011 and 2012.
Source: ITU.

Committed to Connecting the World





MIS 2013

Launch event
07 October 2013

Geneva

ITU Headquarters



MIS 2013



1. Latest key indicators
2. ICT Development Index (IDI)
3. Broadband pricing and affordability
4. Digital natives
5. Digital TV broadcasting

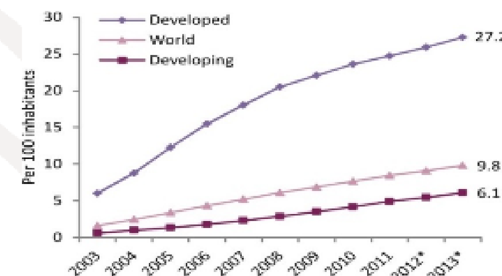
➢ *Methodological and statistical annexes*

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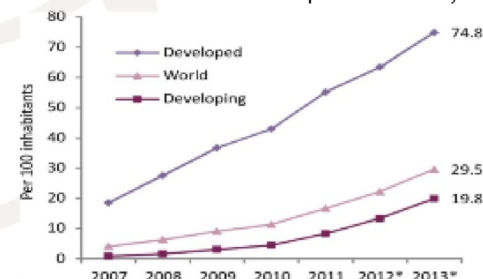
Broadband progress

- Fixed broadband:
  - double-digit growth rates in developing countries
  - slowdown in developed countries
  - divide remains substantial
- Mobile broadband:
  - 3G population coverage 50%
  - 2 billion subscriptions, mobile-broadband penetration 29.5%
  - subscriptions in developing countries doubled in 2 years

Fixed (wired)-broadband penetration, 2003-2013*



Active mobile-broadband penetration, 2007-2013*



Source: ITU MIS 2013, * Estimate

MIS 2013 launch, 07 October 2013

3

تطور الحزمة العريضة

الحزمة العريضة الثابتة تطورت في العالم الثالث وثابتة في العالم المتطور، لكن الفجوة الرقمية ما زالت كبيرة

الحزمة العريضة المتنقلة تضاعفت في بلدان العالم الثالث نتيجة الحاجة وسرعة الانتشار

Committed to Connecting the World

International Telecommunication Union

The ICT Development Index (IDI)

- 11 indicators, covering 3 areas:
  - ICT access
  - ICT use
  - ICT skills
- 157 economies
- 2012 and 2011 comparison
- Digital divide analysis
- Regional analysis

- يحتوي المؤشر على 11 مؤشر فرعي، تتوزع على النفاذ الاستعمال والمهارات
- يقيس ويضع مؤشر لـ 157 دولة
- يحلل الفجوة الرقمية والمناطق

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IDI highlights

Top ten

1. Korea (Rep.)
2. Sweden
3. Iceland
4. Denmark
5. Finland
6. Norway
7. Netherlands
8. United Kingdom
9. Luxembourg
10. Hong Kong, China

Key findings

- Between 2011 and 2012:
  - ICT levels increased almost everywhere
  - Gap between top and bottom performers remains
  - Developing countries are catching up in the IDI use sub-index
- Lowest IDI group: Least Connected Countries (LCCs), home to 2.4 billion people
  - These could potentially derive the greatest benefits from ICTs in areas such as health, education, job creation

Committed to Connecting the World



Most dynamic countries are from the developing world

Changes between IDI 2011 and 2012

Change in IDI ranking			Change in IDI value (absolute)		
IDI rank 2012	Country	IDI rank change	IDI rank 2012	Country	IDI value change
33	United Arab Emirates	12	52	Lebanon	0.75
52	Lebanon	9	33	United Arab Emirates	0.73
29	Barbados	7	29	Barbados	0.65
64	Seychelles	6	54	Oman	0.56
41	Belarus	5	60	Costa Rica	0.56
60	Costa Rica	5	41	Belarus	0.55
85	Mongolia	5	22	Estonia	0.54
132	Zambia	5	39	Bahrain	0.51
11/135	Australia/Bangladesh	4*	26	Israel	0.41
54/115	Oman/Zimbabwe	4*	62	Brazil	0.41

- Governments can play an important role by: adopting national ICT/ broadband plans, promoting competition, setting concrete targets and fostering ICT investments.

Broadband cost and affordability

- Fixed broadband:
  - prices dropped by 82% (2008-2012) but differ hugely between countries
  - remains unaffordable in low-income countries
- Mobile broadband:
  - relatively affordable in developed countries
  - still relatively expensive in many developing countries…
  - … but tends to be cheaper than fixed-broadband for low data-volume packages/offers (in developing countries)
- Policy makers: should monitor the affordability of ICT services and identify regulatory policies that bring down prices

An honorable result نتيجة مشرّفة

- Minister with visionary futuristic thoughts
- رؤيا مستقبلية للقطاع من قبل وزير الاتصالات

- Never give-up, never lose hope, Keep trying
- لا نستسلم، لا نفقد الامل، نحال دوماً

- Owner Supervisory Board dynamism
- MoT – Ogero team, TRA
- مهنية العاملين في القطاع العام والخاص

- Alfa and Touch professionalism
- ISPs DSPs surviving despite all obstacles

- This without mentioning the other incentives created for the youth and entrepreneur, BDL, BDD, AIGF

Lebanon



Proud to receive
Honorary Ranking

This success if for all Lebanese

النجاح لجميع اللبنانيين

Thank You

شكراً



